

CLAIMS

Claim 1. An aluminum sheet material for automobiles, which has an aluminum alloy composition consisting essentially of between more than 2.6 wt% and 5 wt% of Si, 0.2 to 0.8 wt% of Mg, 0.2 to 1.5 wt% of Zn, 0.2 to 1.5 wt% of Cu, 0.2 to 1.5 wt% of Fe, and between 0.05 and less than 0.6 wt% of Mn, and one or more members selected from the group consisting of 0.01 to 0.2 wt% of Cr, 0.01 to 0.2 wt% of Ti, 0.01 to 0.2 wt% of Zr, and 0.01 to 0.2 wt% of V, with the balance of aluminum and unavoidable impurities.

Claim 2. A method of producing an aluminum sheet material for automobiles which comprises:

providing an aluminum casting ingot which consists essentially of between more than 2.6 wt% and 5 wt% of Si, 0.2 to 0.8 wt% of Mg, 0.2 to 1.5 wt% of Zn, 0.2 to 1.5 wt% of Cu, 0.2 to 1.5 wt% of Fe, between 0.05 and less than 0.6 wt% of Mn, and one or more members selected from the group consisting of 0.01 to 0.2 wt% of Cr, 0.01 to 0.2 wt% of Ti, 0.01 to 0.2 wt% of Zr, and 0.01 to 0.2 wt% of V, with the balance of aluminum and unavoidable impurities;

melting the aluminum ingot;

casting the aluminum ingot;
homogenizing the aluminum ingot;
hot-rolling the aluminum ingot; and
cold-rolling the aluminum ingot,
wherein said aluminum casting ingot comprises automobile
aluminum parts scraps.

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